

Certificate of Analysis

COS covered batch.

COS No.: R1-CEP 2002-099-Rev 07

No.:210224

Test Standard: EP10.0

Quantity:960kg

Testing Date:2021.01.20

Product: Ibuprofen

Batch#:C100-2101224M

Manufacturing Date:2021.01.18

Expiry Date:2026.01.17

Items	Specifications	Results
Characteristics	White Crystalline Powder	Conforms
Solubility	Practically insoluble in water, freely soluble in acetone, in methanol and in methylene chloride. It dissolves in dilute solutions of alkali hydroxides and carbonates.	Conforms
Identification	A. Melting Point :75.0—78.0℃ C. IR Spectral Match	75.5-76.4℃
Optical Rotation	-0.05°— +0.05°	Conforms
Appearance of Solution	Clear and Colorless	0.00°
Related Substances	2-[3-(2-methylpropyl)phenyl]propanoic acid(Impurity A): not more than 0.15%	0.03%
	2-[4-(2-methylpropanoyl)phenyl]propanoic acid(Impurity J): not more than 0.15%	Not detected
	2-(4-methylphenyl)propanoic acid(Impurity D): not more than 0.05%	Not detected
	2-(4-ethylphenyl)propanoic acid(Impurity N): not more than 0.15%	Not detected
	2-(4-propylphenyl)propanoic acid: not more than 0.05%	0.01%
	2-(4-butylphenyl)propanoic acid(Impurity B): not more than 0.05%	Not detected
	Any unknown impurity: not more than 0.05%	0.031%
	Total impurities: not more than 0.2%	0.09%
Loss on Drying	Not More Than 0.5%	0.13%
Sulfated Ash	Not More Than 0.1%	0.01%
Assay(Dry Basis)	98.5 - 101.0%	99.9%
Residual solvents	Petroleum ether not more than 250ppm	51ppm
	Methanol not more than 3000ppm	Not detected
	Toluene not more than 890ppm	Not detected
ADDITIONAL TESTS		
Bulk Density	0.25-0.50g/ml	0.37g/ml
Tapped Density	0.50-0.75g/ml	0.60g/ml
Median Particle Size	60-90um	70.1um
Conclusion:The product meets EP specifications.		
*Note:The test for impurity F described in the monograph is not necessary since this impurity cannot be present with the route of synthesis used.		

Qc supervisor: 廖敏杰

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